## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Fournier et al.

Examiner: Unknown

Art Unit:

Unknown

Application No.: To Be Assigned

Filed: January 29, 2004

Title: POLYPEPTIDES CAPABLE OF INTERACTING WITH HUMAN TOPOISOMERASE III ALPHA

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## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

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Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

(a) This Information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application, or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 18-1982.

(b)	(b) This Information Disclosure Statement is filed after the period set forth in							
	1.97	(b), but is believed to be filed before the mailing date of a final action under §1.113						
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	(1)	The undersigned attorney certifies that each item of information contained in this						
		Information Disclosure Statement was cited in a communication from a foreign						
		patent office in a counterpart foreign application not more than three months prior						
		to the filing of this statement;						
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The items listed with an asterisk on the attached PTO-1449 (modified) have been previously submitted by the examiner or the applicant in related applications of this series. Therefore, a copy of the reference(s) are not enclosed with this Information Disclosure Statement.

Respectfully submitted,

William C. Coppola, Reg. No. 41,686

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Docket No. ST98045 US DIV

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET	NO.	SERIAL	NO.				
(Modified)	PATENT AND TRADEMARK OFFICE	ST98045 US F	09/856	•					
STA	DRMATION DISCLOSURE TEMENT BY APPLICANT	APPLICANT FOURNIER, ET AL							
(Use	several sheets if necessary)	FILING DATE	GROUP						
		JUNE 25, 200	1	1642					
	U.S. F	PATENT DOCU	MENTS		_				
EXAMINER * INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS	FILING DATE IF APPRORIATE			

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	•		DOC	DOCUMENT NUMBER DATE COUNTRY								SUBCLAS S	YES NO	TION
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## **OTHER DOCUMENTS**

			OTHER DOCUMENTS
EXAMINER INITIALS	•		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
HATTIALO		ав ¥	Confalonieri et al. Reverse gyrase: A helicase-like domain and a type I topoisomerase in the same polypeptide. Proc. Natl. Acad. Sci. USA 90:4753-4757 (1993)
		AC⊀	Chung, J. et al. Identification of a Human Homolog of a Putative RNA Helicase Gene (mDEAD3) Expressed in Mouse Erythroid Cells. Korean J. Biochem. 27:193-197 (1995).
		ADX	
		ΑEχ	topoisomerase from Sulfolobus acidocaldarius. EMBO Journal 4(8):2123-2128 (1985).
		AF ≱	Fritz, E. et al. Overexpression of a truncated human topoisomerase III partially corrects multiple aspects of the ataxia-
		AG∜	Gangloff, S. et al. The Yeast Type I Topoisomerase TOP3 Interacts with SGS1, a DNA Helicase Homolog: a Potential Eukaryotic Reverse Gyrase. Mol. and Cellular Biology 14(12):8391-8398 (1994).
		AH *	Gee, S et al. Mouse erythroid cells express multiple putative RNA helicase genes exhibiting high sequence conservation from yeast to mammal. Gene 140:171-177 (1994).
		AI 🔆	Goulaouic, H. et al. Purification and Characterization of human DNA topoisomerase IIIα Nuc. Acid Res.
		AJ &	Hanai et al. Human TOP3: A single-copy gene encoding DNA topoisomerase III. PNAS USA 93:3653-3657 (1996).
		AKى	£'
		AL A	Li, W. et al. Mammalian DNA topoisomerase IIIα is essential in early embryogenesis. PNAS USA 95:1010-1013 (1998).
		AM €	Mullen et al. Human homolgoues of yeast helicase. Nature 383:678-679 (1996).
		AN *	Ng, S. et al. Anew human topoisomerase III that interacts with SGS1 protein. Nucl. Acids Res. 27(4):993-1000 (1999)
		AO 🖈	Genome Research 5:421-426 (1995).
		ΑP	Seki, T. et al. Isolation of a cDNA encoding mouse DNA Topoisomerase III which is highly expressed at the mRNA level in the testis. Biochim. et Biophys. Acta 1396:127-131 (1998)
		AQX	Wang, J. DNA Topoisomerases: Why so Many? J. Biol. Chem. 266(11):6659-6662 (1991).

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Note: Asterisk (\*) item(s) have been previously cited in a related application(s) either by the applicant or by the USPTO and therefore copies of the reference(s) are not being submitted.